

WHAT IS CLAIMED IS:

1. A method for processing images comprising the steps of:

obtaining image data units and attribute information thereof;

selecting a first image data unit from the image data units as a reference for measuring a similarity index;

comparing attribute information of the first image data unit with attribute information of the remaining image data units other than the first image data unit to determine a second image data unit to be used for measuring the similarity index; and

measuring the similarity index between the first image data unit and the second image data unit.

2. A method for processing images according to claim 1, wherein the second image data unit is not included in image data units having pan angles, tilt angles, and zoom angles of a camera during capturing the image data units, these angles being different from those included in the attribute information of the first image data unit.

3. A method for processing images according to claim 1, further comprising the steps of:

splitting each of the first image data unit and the second image data unit into a plurality of blocks; and measuring the similarity index between the first image data unit and the second image data unit on a block-to-block basis.

4. A method for processing images according to claim 1, further comprising the steps of:

specifying a region for measuring the similarity index in the first image data unit; and measuring the similarity index between the specified region in the first image data unit and the corresponding region in the second image data unit.

5. A method for processing images according to claim 4, further comprising the steps of:

splitting each of the first image data unit and the second image data unit into a plurality of blocks; and specifying at least one block to specify the region in the first image data unit.

6. A method for processing images comprising the steps of:

obtaining image data units;  
selecting a first image data unit as a reference for

measuring a similarity index and specifying a region for measuring the similarity index in the first image data unit; specifying a region in a second image data unit in the remaining image data units other than the first image data unit, the region in the second image data unit corresponding to the specified region in the first image data unit; and measuring the similarity index between the specified region in the first image data unit and the specified corresponding region in the second image data unit.

7. An apparatus for processing image comprising:  
obtaining means for obtaining image data units and attribute information thereof;  
image-storing means for storing the image data units;  
attribute-storing means for storing the attribute information;  
selecting means for selecting an image data unit as a reference for measuring a similarity index;  
excluding means for excluding an image data unit that is not to be used for measuring the similarity index from the image data units by comparing attribute information of the selected image data unit with the attribute information stored in the attribute-storing means; and  
similarity-measuring means for measuring the similarity index between the selected image data unit and an image data

unit that is not excluded by the excluding means.

8. An apparatus for processing images according to claim 7 wherein the excluding means excludes image data units having pan angles, tilt angles, and zoom angles of a camera during capturing the image data units, these angles being different from those included in the attribute information of the image data unit selected by the selecting means.

9. An apparatus for processing images according to claim 7 further comprising splitting means for splitting the image data units into a plurality of blocks, wherein the similarity-measuring means measures the similarity index between the image data unit selected by the selecting means and an image data unit that is stored in the image-storing means and that is not excluded by the excluding means.

10. An apparatus for processing images according to claim 7 further comprising region-specifying means for specifying a region in the image data unit for measuring the similarity index, wherein the similarity-measuring means measures the similarity index between the specified region in the image data unit selected by the selecting means and the corresponding region in an image data that is stored in

the image-storing means and that is not excluded by the excluding means.

11. An apparatus for processing images according to claim 10 further comprising splitting means for splitting the image data units into a plurality of blocks, wherein the region-specifying means specifies at least one block to specify the region in the image data unit for measuring the similarity index.

12. An apparatus for processing images comprising:  
obtaining means for obtaining image data units;  
image-storing means for storing the image data units;  
selecting means for selecting an image data unit as a reference for measuring similarity index and for specifying a region for measuring the similarity index in the selected image data unit;  
specifying means for specifying a region in an image data unit in the remaining image data units stored in the image-storing means, the region in the image data unit corresponding to the specified region in the selected image data unit; and  
similarity-measuring means for measuring the similarity index between the specified region in the selected image data unit and the specified corresponding region in the

image data unit.

13. A program for making a computer execute the steps of:

obtaining image data units and attribute information thereof;

selecting a first image data unit from the image data units as a reference for measuring a similarity index;

comparing attribute information of the first image data unit with attribute information of the remaining image data units other than the first image data unit to determine a second image data unit to be used for measuring the similarity index; and

measuring the similarity index between the first image data unit and the second image data unit.

14. A computer-readable recording medium storing the program according to claim 13.